Hastings Deering CAT

Current Sample

Customer	SJ & SC REDDIE	Serial No	4PN00660
Unit No	4PN00660	Compartment	ENGINE PRIMARY - DIESEL : 101
Model	PS300	Job Site	Default Site
		Sampled Site	GLADSTONE

Details

ImageAttach	Lab Number	Eval	Sample Date	Sample Recieved	Meter Read	Oil Type	Oil Grade	Fluid Hrs	Fluid Add	Fluid Chg	Filter Chg
	15384533	X	27 Oct 2020	02 Nov 2020	5256	CASTROL VECTON CK-4 E9	15W40	312	2.00	Y	Y
	12353622	C	19 May 2018	23 May 2018	4123	UNKNOWN	OIL	500	0.00	Y	Y

Element Results

Lab Number	Eval	S	Cu	Fe	Cr	Pb	Al	Si	Sn	Ni	Na	K	Mo	Ca	Mg	P	Zn	Ti	Sb	V	B	Ag	Mn	Cd	Ba	Li	UST	UOXI	USUL	UNIT	V40	V100	VI	F	WAT	PQ	DEP
15384533	X	3671	25	258	10	3	33	108	2	8	4	2	74	2030	327	944	1114	3	<1	<1	67	<1	3	<1	<1	<1	65	15	24	8	128	16.3	137	<2.0	<0.1	55	MM-B
12353622	C	8528	60	103	3	5	2	8	<1	2	6	3	49	1241	865	946	1291	<1	<1	<1	7	<1	2	<1	<1		48	16	27	12	109	14.5	135	<2.0	0.1	4	N--B

Interpretation Comments

Lab Number	Eval	Comments
15384533	X	Viscosity high for oil type indicated. Soot is slightly high. A medium amount of magnetic metal was observed. PQ index is high. Copper, Lead and Nickel are slightly high, Iron is high, Aluminium and silicon are Indicating dirt ingress, Iron and chrome are likely elevated as a result of the abrasive wear caused by the dirt contamination, All other test results appear acceptable. **Suggested Action: Stop unit to investigate & evaluate compartment.** Inspect the used oil filters for abnormal debris. Filtergram analysis may assist in confirming and identifying sources of the elevated wear metal levels. Inspect for leaks at intake, breathers and seals that may allow dirt to enter. Advise changing oil at this stage. Resample following assessment/repair.
12353622	C	Viscosity is typical of 15W40 grade oil. Infrared analysis appears acceptable. Copper, Iron & Lead are High. Possible bearing wear. Chrome & Nickel are Slightly High, All other test results appear acceptable. **Suggested Action:** Investigate and evaluate compartment condition. Inspect the used oil filters for abnormal debris. Filtergram Analysis may assist in identifying sources of the elevated Wear Metal Levels. Reduce the oil change interval. If make up oil is needed, include in next sample. More samples are needed to establish a trend. Resample at 150 hours.