



OIL REPORT

LAB NUMBER:
 REPORT DATE: 11/27/2018
 CODE: 20/32

UNIT ID: 08 F350
 CLIENT ID:
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Navistar 6.4L V-8 Power Stroke Twin T	OIL TYPE & GRADE: Diesel Engine Oil
	FUEL TYPE: Diesel	OIL USE INTERVAL: 5,500 Miles
	ADDITIONAL INFO:	

CLIENT	:
	:
	:
	:
	:

COMMENTS It looks like this engine has a coolant leak. Potassium and sodium show coolant contamination and both are present. If you used any Archoil or Rev-X additive in the past, some of the potassium and sodium could be from that, but sodium is not generally this high in those additives. Plus, coolant tends to cause excess wear and we have that. Aluminum and iron are the dominant metals, showing excess piston and/or bearing wear and steel wear, respectively. We're leaning towards a problem for this engine. Make any necessary repairs and check back.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,500	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	133,556						
	Sample Date	11/3/2018						
	Make Up Oil Added	0 qts						
ALUMINUM	61						14	
CHROMIUM	3						1	
IRON	91						30	
COPPER	5						1	
LEAD	8						2	
TIN	1						1	
MOLYBDENUM	95						26	
NICKEL	2						1	
MANGANESE	2						0	
SILVER	0						0	
TITANIUM	0						1	
POTASSIUM	217						8	
BORON	330						66	
SILICON	8						6	
SODIUM	48						5	
CALCIUM	1670						1717	
MAGNESIUM	421						403	
PHOSPHORUS	1193						1002	
ZINC	1301						1156	
BARIUM	0						1	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°	71.1					
	cSt Viscosity @ 100°C	13.23					
	Flashpoint in °F	415	>415				
	Fuel %	TR	<2.0				
	Antifreeze %	POS	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.3	<0.6				
	TBN						
	TAN						
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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