

OIL ANALYSIS REPORT

Sample Rating Trend



HYDREX MV 32 - T-9

Component New (Unused) Oil Fluid {not provided} (--- LTR)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

Contamination

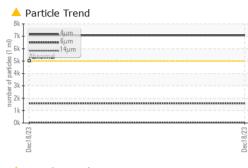
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

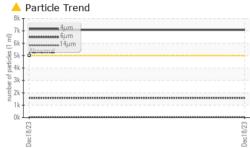
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0070970		
Sample Date		Client Info		18 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		0		
Chromium	ppm	ASTM D5185m		0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m		0		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m		0		
Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		49		
Phosphorus	ppm	ASTM D5185m		307		
Zinc	ppm	ASTM D5185m		418		
Sulfur	ppm	ASTM D5185m		789		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304		NEG		
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	7073		
Particles >6µm		ASTM D7647	>1300	1587		
Particles >14µm		ASTM D7647	>160	67		
Particles >21µm		ASTM D7647	>40	15		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/13		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.69		

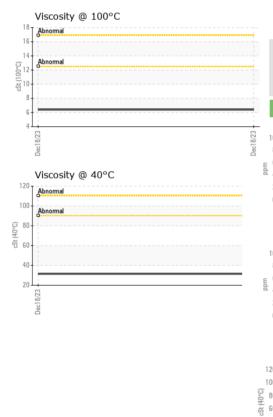


OIL ANALYSIS REPORT

VISUAL







White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAG Color	cSt cSt Scale	*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual method ASTM D445 ASTM D445 ASTM D4270 method	NONE NONE NONE NONE NORML NORML Imit/base	NONE NONE NONE LIGHT NORML NORML NORML NEG NEG 31.4 6.39 160 current	 history1 history1	 history2
Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual method ASTM D445 ASTM D445	NONE NONE NONE NORML NORML Iimit/base	NONE NONE LIGHT NONE NORML NORML NEG NEG SIL4 6.39 160	 history1 	 history2
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water Free Water Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAG	scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual method ASTM D445 ASTM D445	NONE NONE NORML NORML Iimit/base	NONE LIGHT NORML NORML NEG NEG Current 31.4 6.39 160	 history1 	 history2
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water Free Water Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAG	scalar scalar scalar scalar scalar scalar scalar scalar cSt scale	*Visual *Visual *Visual *Visual *Visual method ASTM D445 ASTM D445 ASTM D2270	NONE NORML NORML Iimit/base	LIGHT NONE NORML NEG NEG Current 31.4 6.39 160	 history1 	 history2
Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	scalar scalar scalar scalar scalar scalar scalar cSt cSt scale	*Visual *Visual *Visual *Visual *Visual method ASTM D445 ASTM D445 ASTM D2270	NONE NORML NORML Iimit/base	LIGHT NONE NORML NEG NEG Current 31.4 6.39 160	 history1 	 history2
Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAG	scalar scalar scalar scalar scalar scalar scalar cSt cSt scale	*Visual *Visual *Visual *Visual *Visual method ASTM D445 ASTM D445 ASTM D2270	NONE NORML NORML limit/base	NONE NORML NEG NEG Current 31.4 6.39 160	 history1 	 history2
Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	scalar scalar scalar scalar RTIES cSt cSt scale	*Visual *Visual *Visual *Visual method ASTM D445 ASTM D445 ASTM D4270	NORML NORML limit/base	NORML NORML NEG NEG Current 31.4 6.39 160	 history1 	 history2
Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC Color	scalar scalar scalar RTIES cSt cSt scale	*Visual *Visual *Visual Method ASTM D445 ASTM D445 ASTM D2270	NORML limit/base	NORML NEG NEG Current 31.4 6.39 160	 history1 	 history2
Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC Color	scalar scalar RTIES cSt cSt Scale	*Visual *Visual method ASTM D445 ASTM D445 ASTM D2270	limit/base	NEG NEG current 31.4 6.39 160	 history1 	 history2
Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAG Color	scalar RTIES cSt cSt Scale	*Visual method ASTM D445 ASTM D445 ASTM D2270		NEG current 31.4 6.39 160	 history1 	history2
FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAG	RTIES cSt cSt Scale	method ASTM D445 ASTM D445 ASTM D2270		current 31.4 6.39 160	history1 	history2
Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270		31.4 6.39 160		
Visc @ 100°C Viscosity Index (VI) SAMPLE IMAG Color	cSt Scale	ASTM D445 ASTM D2270	limit/base	6.39 160		
Viscosity Index (VI) SAMPLE IMAC	Scale	ASTM D2270	limit/base	160		
SAMPLE IMAG			limit/base			history2
Color	ES	method	limit/base	current	history1	history2
Color		Μειποα	inni/base	current	riistory i	riistoryz
Bottom					no image	no image
					no image	no image
GRAPHS						
Ferrous Alloys				Particle Count		
¹⁰ T			491,520			T ²
8 - iron			122.880			-2
E 4				Severe		
2 -			30,720			ti i
			7,680	Abnormal		-
c18/2			c18/2			-
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8 copper			ja 120			
E 6-			E 30			
8 4-			50			
2			8	-		
8/23 .			2 8/23			
Dec1			Decl			
Viscosity @ 40°C			0	Fμ 6μ	14μ 21μ	38µ 71µ
, -						
100 Abnormal			By 0.60			
80-			ຍັ ພ.40			
			0.20			
				L		
20			Dec18/23	Dec18/23		
Dec18/23						
	Non-ferrous Metal	Non-ferrous Metals	Non-ferrous Metals	Image: School of the school	Non-ferrous Metals Viscosity @ 40°C Viscosity @ 40°C	Non-ferrous Metals

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: KATRINA THOM - COLFON

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