

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 015 - MOBILTRANS AST 20 Component

New (Unused) Oil Fluid {not provided} (--- GAL)

DIAGNOSIS

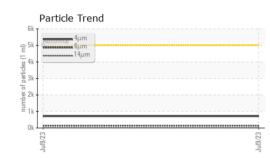
Recommendation

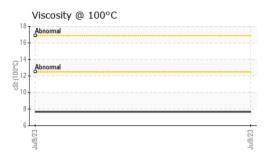
This is a baseline read-out on the submitted sample.

SAMPLE INFORM	MAT <u>ION</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0090190		
Sample Date		Client Info		09 Jul 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		1		
Chromium	ppm	ASTM D5185m		0		
Nickel	ppm	ASTM D5185m		<1		
Titanium	ppm	ASTM D5185m		<1		
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		<1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		11		
Calcium	ppm	ASTM D5185m		3143		
Phosphorus	ppm	ASTM D5185m		994		
Zinc	ppm	ASTM D5185m		1171		
Sulfur	ppm	ASTM D5185m		4225		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		5		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	712		
Particles >6µm		ASTM D7647	>1300	139		
Particles >14µm		ASTM D7647	>160	13		
Particles >21µm		ASTM D7647	>40	2		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/11		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.62		



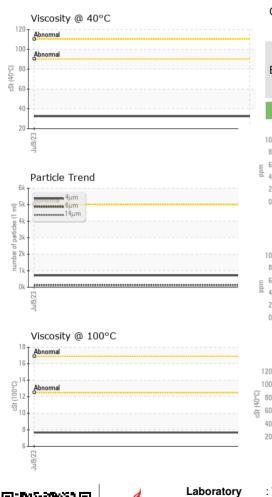
OIL ANALYSIS REPORT





* - 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)



VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water Free Water Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual Method ASTM D445 ASTM D445 ASTM D2270	limit/base NONE NONE NONE NONE NORML NORML Iimit/base	current NONE NONE NONE NONE NONE NORML NORML NEG NEG 32.5 7.66 217	history1	history2 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	*Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual method ASTM D445 ASTM D445	NONE NONE NONE NORML NORML	NONE NONE NONE NONE NORML NORML NEG NEG Current 32.5 7.66	 history1	 history2
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	*Visual *Visual *Visual *Visual *Visual *Visual t *Visual b method ASTM D445 ASTM D445	NONE NONE NONE NORML NORML	NONE NONE NONE NORML NORML NEG NEG Current 32.5 7.66	 history1 	 history2
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	*Visual *Visual *Visual *Visual *Visual *Visual method ASTM D445 ASTM D445	NONE NONE NORML NORML	NONE NONE NORML NORML NEG NEG Current 32.5 7.66	 history1 	 history2
Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	scalar scalar scalar scalar scalar scalar ETTIES cSt cSt Scale	*Visual *Visual *Visual *Visual *Visual method ASTM D445 ASTM D445 ASTM D2270	NONE NORML NORML	NONE NORML NORML NEG NEG Current 32.5 7.66	 history1 	 history2
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	*Visual *Visual *Visual *Visual method ASTM D445 ASTM D445 ASTM D2270	NONE NORML NORML	NONE NORML NORML NEG NEG Current 32.5 7.66	 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 scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual method ASTM D445 ASTM D445 ASTM D2270	NORML	NORML NORML NEG NEG Current 32.5 7.66	 history1 	 history2
Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	scalar scalar scalar SRTIES cSt cSt cSt Scale	*Visual *Visual *Visual Method ASTM D445 ASTM D445 ASTM D2270	NORML	NORML NEG NEG Current 32.5 7.66	 history1	 history2
Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	scalar scalar RTIES cSt cSt cSt Scale	*Visual *Visual method ASTM D445 ASTM D445 ASTM D2270		NEG NEG current 32.5 7.66	 history1 	 history2
Free Water FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	scalar RTIES cSt cSt Scale	*Visual method ASTM D445 ASTM D445 ASTM D2270	limit/base	NEG current 32.5 7.66	 history1 	 history2
FLUID PROPE Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	CSt cSt CSt Scale	method ASTM D445 ASTM D445 ASTM D2270	limit/base	current 32.5 7.66	history1	history2
Visc @ 40°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	cSt cSt Scale	ASTM D445 ASTM D445 ASTM D2270	limit/base	32.5 7.66		
Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	cSt Scale	ASTM D445 ASTM D2270		7.66		
Visc @ 100°C Viscosity Index (VI) SAMPLE IMAC	Scale	ASTM D2270				
SAMPLE IMAG	Scale	ASTM D2270		217		
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Viscosity @ 40°C			4	م مربع Acid Number	14μ Ζ1μ	30µ /1µ
120 Abnormal			(₽2.0-			
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60			<u>ل</u> ے 1.0			
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20			0.0 Acid	Li		
			u19/23	2(9)/2(
	Non-ferrous Meta	Ferrous Alloys Ferrous Alloys Non-ferrous Metals Viscosity @ 40°C Viscosity @ 40°C C C C C C C C C C C C C C	Ferrous Alloys Ferrous Alloys Non-ferrous Metals Viscosity @ 40°C Viscosity @ 40°C Copper Viscosity @ 40°C Copper Viscosity @ 40°C Copper Viscosity @ 40°C Copper Viscosity @ 40°C Copper Viscosity @ 40°C Copper Copp	Ferrous Alloys 491.520 122.880 30.720 122.880 30.720 1.920 Non-ferrous Metals Viscosity @ 40°C Viscosity @ 40°C 000 000 000 000 000 000 000	Ferrous Alloys Particle Count	Ferrous Alloys Particle Count Particle Count

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